

## ABSTRACT

A process for concentrating and recovering methane and carbon dioxide from landfill gas includes absorption of commonly occurring pollutants using a carbon dioxide absorbent which itself may be an in situ recoverable constituent. Separated methane is concentrated  
5 into a high heating value fuel, and a carbon dioxide product may also be recovered. Process streams may be used to provide fuel for compression and refrigeration and to regenerate carbon dioxide absorbent.